

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 23 June 2005 (23.06.2005)

(10) International Publication Number WO 2005/056661 A3

- (51) International Patent Classification7: C09K 3/00, C23F 11/00, C08K 5/3432, 5/17, 5/3467, 5/524
- (21) International Application Number:

PCT/US2004/040366

- (22) International Filing Date: 2 December 2004 (02.12.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/527,795

8 December 2003 (08.12.2003)

- (71) Applicant (for all designated States except US): HUNTS-MAN POLYMERS CORPORATION [US/US]; 2502 South Grandview, Odessa, Texas 79766 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): NAYAK, Kasinath [US/US]; 2 Louisiana Cove, Odessa, Texas 79762 (US). CUMMINGS, Gerald [US/US]; 4230 Lazy Creek Drive, Tyler, Texas 75707 (US). MERRILL, Roger [US/US]; 4309 Kirkwood Drive, Odessa, Texas 79762 (US).
- (74) Agents: WHEWELL, Christopher, J. et al.; Huntsman LLC, Legal Department, 7114 North Lamar Blvd., Austin, Texas 78752 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 15 September 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: Blends useful as an additive in polyolefin polymers for minimizing the effects of radiation on the physical properties of polymers, which comprises a hindered amine light stabilizer and at least one material selected from the group consisting of: i) amine oxides and ii) hydroxylamines. Various articles of manufacture may be produced using a composition or blend according to the invention, and the physical properties of such articles are less effected by electromagnetic radiation than like-kind compositions of the prior art.



